



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Browse *et al.*

Patent No. 6,825,017

Issued: November 30, 2004

Application No. 09/857,583

Filed: August 17, 2001

Confirmation No. 6370

For: DESATURASES AND METHODS OF
USING THEM FOR SYNTHESIS OF
POLYUNSATURATED FATTY ACIDS

Examiner: Manjunath N. Rao

Art Unit: 1652

Attorney Reference No. 4630-58963-01

Attn: CERTIFICATE OF CORRECTION BRANCH
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, ATTN: CERTIFICATE OF CORRECTIONS BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent
for Applicant(s)

Tanya M. Harding, Ph.D.

Date Mailed December 7, 2005

Certificate
DEC 14 2005
of CorrectionTRANSMITTAL LETTER

Enclosed for filing in the application referenced above are the following:

- ☒ Request for Certificate of Correction
☒ Certificate of Correction
- ☒ The Director is hereby authorized to charge any additional fees that may be required, or credit over-payment, to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 595-5300
Facsimile: (503) 595-5301

By

Tanya M. Harding, Ph.D.
Registration No. 42,630

DEC 14 2005

cc: Docketing



TMH/IJG:kaa 12/07/05 4630-58963-01 447780 487

PATENT
Attorney Matter No. 4630-58963-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Browse *et al.*

Patent No. 6,825,017

Issued: November 30, 2004

Application No. 09/857,583

Filed: August 17, 2001

Confirmation No. 6370

For: DESATURASES AND METHODS OF
USING THEM FOR SYNTHESIS OF
POLYUNSATURATED FATTY ACIDS

Examiner: Manjunath N. Rao

Art Unit: 1652

Attorney Reference No. 4630-58963-01

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, ATTN: CERTIFICATE OF CORRECTIONS BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent
for Applicant(s)

Tanya M. Harding, Ph.D.

Date Mailed December 7, 2005

Attn: CERTIFICATE OF CORRECTION BRANCH
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

The following printing errors were noted in comparing the printed patent with the papers in the attorneys' files:

In the Specification:

Column 1, line 34 "1123:126" should read --1123:18-26--.

Column 1, line 53 "dihomoy- γ -linolic" should read --dihomo- γ -linolic --.

Column 2, line 2 "Brenner." should read --Brenner,--.

Column 2, line 14 " Δ^5 " should read -- Δ^6 --.

Column 2, line 17 " Δ^8 -desaturase" should read -- Δ^5 -desaturase--.

Column 2, line 32 "20:3,," should read --0:3.--.

Column 3, line 57 " Δ^8 ," should read -- Δ^6 --.

Column 4, line 6 "fiction" should read --function--.

DEC 14 2005

Column 4, line 15 "recorlibinant" should read --recombinant--.

Column 4, line 16 "eithercontrol" should read --either control--.

Column 4, line 30 "product;" should read --product,--.

Column 4, line 30 "bracket" should read --bracket.--.

Column 5, line 13 "(11.1911.12 min.)" should read --(11.19-11.12 min.)--.

Column 5, lines 14-15 "(11.6411.65 min.)" should read --(11.64-11.65 min.)--.

Column 5 line 58 "probst" should read --protist--.

Column 5 line 60 "probst" should read --protist--.

Column 6, line 59 "desaturase-ncoding" should read --desaturase-encoding--.

Column 8, line 6 "set-to-" should read --set to--.

Column 8, line 30 "CABIOS4:11-17," should read --CABIOS 4:11-17,--.

Column 10, line 33 "Nativ :'" should read --Native:--.

Column 11, line 9 "7A" should read --7A.--.

Column 11, line 14 "and-consistently" should read --and consistently--.

Column 11, line 30 "7A" should read --7A.--.

Column 12, line 19 " \neq^5 - or or" should read -- Δ^5 - or--.

Column 13, line 6 "plantene" should read --plant-gene--.

Column 13, line 16 "wuni" should read --wunI--.

Column 13, line 21 "Ceti" should read --Cell--.

Column 13, line 51 "plant" should read --plant.--.

Column 14, line 24 "include." should read --include:--.

Column 14, line 45 "Isoforms")" should read --Isoforms")--.

Column 15, line 21
 "5-bromo-4-chloro-3-indoyl"
 should read
 --5-bromo-4-chloro-3-indolyl--.

Column 16, line 28 "Laboratory," should read --Laboratory Press,--.

Column 17, line 44 "BLAStm" should read --BLASTtm--.

Column 17, line 45 " Δ^8 -desaturase" should read -- Δ^6 -desaturase--.

Column 17, line 67

“(GGCTGGCTGACNCAYGARTYTGICAY;”

should read

--(GGCTGGCTGACNCAYGARTTYTGICAY;--.

Column 18, lines 53-54

“[CCCGGGAAGCTTCTCGAGGATTTTCAATCCTCCTGGGTC;”

should read

--[CCCGGGAAGCTTCTCGAGGAATTTTCAATCCTCCTGGGTC;--.

Column 18, line 55 “1942” should read --19-42--.

Column 18, line 59 “BamH-II” should read --BamH1--.

Column 18, line 60 “interest” should read --interest--.

Column 18, line 61

“CCCGGGTGGATCCGGMCAATATCACACGAAACAG;”

should read

--CCCGGGTGGATCCGGAACATATCACACGAAACAG;--.

Column 19, line 9 “A” should read --A--.

Column 19, line 43 “BamHIII” should read --BamH1--.

Column 21, line 28 “QXHH” should read --QXXHH--.

Column 21, line 29 “colned” should read --cloned--.

Column 21, line 36 “ Δ^8 -desaturase” should read -- Δ^6 -desaturase--.

Column 21, line 65 “*cereviae*” should read --*cerevisiae*--.

Column 22, line 32 “33:343353,” should read --33:343-353,--.

Column 22, line 56 “ Δ^5 -desaturase” should read -- Δ^6 -desaturase--.

Column 22, lines 66-67 “polyadenyladon” should read --polyadenylation--.

Column 23, line 27 “numberZ81122” should read --number Z81122--.

Column 24, line 2 “FAT-3,” should read --FAT-3,--.

Column 24, line 2 “FATA,” should read --FAT-4,--.

Column 24, line 4 “th” should read --the--.

Column 24, line 30 “htd” should read --had--.

Column 25, line 5 “18:14 Δ^{11} ,” should read --8:1 Δ^{11} --.

Column 25, line 5 “18:2 $\Delta^{8,11}$,” should read --8:2 $\Delta^{5,11}$ --.

Column 25, lines 19-20 “20:3 $\Delta^{11,14,17}$,” should read --20:3 $\Delta^{11,14,17}$ --.

Column 25, lines 26-27 “20:3 $\Delta^{5,14,17}$,” should read --20:3 $\Delta^{5,14,17}$ --.

Column 25, lines 30-31 “(20:4 $\Delta^{5,8,11,17}$)” should read --(20:4 $\Delta^{5,8,11,17}$)--.

Column 25, line 44 “18:4 $\Delta^{8,9,12,15}$,” should read --18:4 $\Delta^{6,9,12,15}$ --.

Column 25, lines 44-45

“20:2 $\Delta^{11,14}$, 20:3 $\Delta^{8,11,14}$,”

should read

--20:2 $\Delta^{11,14}$, 20:3 $\Delta^{8,11,14}$ --.

Column 26, line 62 “ Δ^6 ” should read -- Δ^5 --.

Column 27, line 17 “Kom,” should read --Korn--.

Column 27, line 21 “388:113-125,1975” should read --388:113-125, 1975--.

Column 27, line 30 “*Essent*” should read --*Essent*--.

Column 27, line 51 “absent” should read --absent--.

Column 27, line 56 “ Δ^8 ” should read -- Δ^6 --.

Column 27, line 64 “C” should read --C--.

Column 28, line 34 “diet” should read --diet--.

Column 28, line 39 “20:2^{1,14}” should read --20:2 $\Delta^{11,14}$ --.

Column 28, line 61 “this-animal” should read --this animal--.

Column 29, line 51 “agent” should read --agent--.

Column 30, line 2 “development” should read --development--.

Column 30, line 8 “T24A1B” should read --T24A18--.

Column 30, line 19 “JITi 19” should read --JIT119--.

Column 30, line 32 “*Genet*” should read --*Genet*--.

Column 30, line 49 “s lection” should read --selection--.

Column 30, lines 48-49 “20:3 $\Delta^{5,8,11}$ ” should read --20:3 $\Delta^{5,8,11}$ --.

In the Claims:

Column 50, claim 22

"claim 21, wherein" should read
--claim 19, wherein--.

Column 52, claim 26

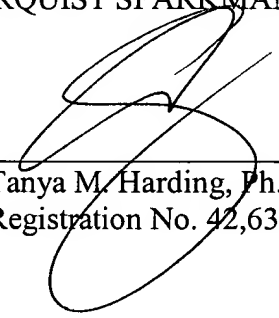
"claim 21, wherein" should read
-- claim 24, wherein--

All of the above errors are attributable to the Patent Office, and a Certificate of Correction is enclosed to make formal notice of the errors in the referenced patent.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By



Tanya M. Harding, Ph.D.
Registration No. 42,630

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446

cc: Docketing

DEC 14 2005

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,825,017

DATED : November 30, 2004

INVENTOR(S) : Browse *et al.*

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

Column 1, line 34 "1123:126" should read --1123:18-26--.

Column 1, line 53 "dihomoy- γ -linolic" should read --dihomo- γ -linolic --.

Column 2, line 2 "Brenner." should read --Brenner,--.

Column 2, line 14 " Δ^5 " should read -- Δ^6 --.

Column 2, line 17 " Δ^8 -desaturase" should read -- Δ^5 -desaturase--.

Column 2, line 32 "20:3,," should read --0:3.--.

Column 3, line 57 " Δ^8 ," should read -- Δ^6 --.

Column 4, line 6 "fiction" should read --function--.

Column 4, line 15 "recolibinant" should read --recombinant--.

Column 4, line 16 "eithercontrol" should read --either control--.

Column 4, line 30 "product;" should read --product,--.

Column 4, line 30 "bracket" should read --bracket.--.

Column 5, line 13 "(11.1911.12 min.)" should read --(11.19-11.12 min.)--.

Column 5, lines 14-15 "(11.6411.65 min.)" should read --(11.64-11.65 min.)--.

Column 5 line 58 "probst" should read --protist--.

Column 5 line 60 "probst" should read --protist--.

Column 6, line 59 "desaturase-ncoding" should read --desaturase-encoding--.

Column 8, line 6 "set-to-" should read --set to--.

Column 8, line 30 "CABIOS4:11-17," should read --CABIOS 4:11-17,--.

Column 10, line 33 "Nativ :'" should read --Native:--.

Column 11, line 9 "7A" should read --7A.--.

Column 11, line 14 "and-consistently" should read --and consistently--.

Column 11, line 30 "7A" should read --7A.--.

Column 12, line 19 " Δ^5 - or or" should read -- Δ^5 - or--.

Column 13, line 6 "plantene" should read --plant-gene--.

Column 13, line 16 "wuni" should read --wunI--.

Column 13, line 21 "Ceti" should read --Cell--.

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 6,825,017

No. of add'l copies _____
(@ .30 per page)

DEC 14 2005

Page 1 of 4

DEC 14 2005

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,825,017

DATED : November 30, 2004

INVENTOR(S) : Browse *et al.*

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 13, line 51 "plant" should read --plant.--.

Column 14, line 24 "include." should read --include:--.

Column 14, line 45 "Isoforms")" should read --Isoforms").--.

Column 15, line 21

"5-bromo-4-chloro-3-indoyl"

should read

--5-bromo-4-chloro-3-indolyl--.

Column 16, line 28 "Laboratory," should read --Laboratory Press,--.

Column 17, line 44 "BLAStm" should read --BLASTtm--.

Column 17, line 45 " Δ^8 -desaturase" should read -- Δ^6 -desaturase--.

Column 17, line 67

"(GGCTGGCTGACNCAYGARTYTG YCAY; "

should read

--(GGCTGGCTGACNCAYGARTTYTG YCAY; --.

Column 18, lines 53-54

"[CCCGGGAAGCTTCTCGAGGATTTTCAATCCTCCTTGGGTC; "

should read

--[CCCGGGAAGCTTCTCGAGGAATTTTCAATCCTCCTTGGGTC; --.

Column 18, line 55 "1942" should read --19-42--.

Column 18, line 59 "BamH-II" should read --BamH1--.

Column 18, line 60 "interest" should read --interest--.

Column 18, line 61

"CCCGGGTGGATCCGGMCAATATCACACGAAACAG; "

should read

--CCCGGGTGGATCCGGAACATATCACACGAAACAG; --.

Column 19, line 9 "A" should read --A.--.

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 6,825,017

No. of add'l copies _____
(@ .30 per page)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,825,017
DATED : November 30, 2004
INVENTOR(S) : Browse *et al.*

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19, line 43 "BamHIII" should read --BamH1--.
Column 21, line 28 "QXHH" should read --QXXHH--.
Column 21, line 29 "colned" should read --cloned--.
Column 21, line 36 " Δ^8 -desaturase" should read -- Δ^6 -desaturase--.
Column 21, line 65 "*cereviae*" should read --*cerevisiae*--.
Column 22, line 32 "33:343353," should read --33:343-353,--.
Column 22, line 56 " Δ^5 -desaturase" should read -- Δ^6 -desaturase--.
Column 22, lines 66-67 "polyadenyladon" should read --polyadenylation--.
Column 23, line 27 "numberZ81122" should read --number Z81122--.
Column 24, line 2 "FAT-3,," should read --FAT-3,--.
Column 24, line 2 "FATA," should read --FAT-4,--.
Column 24, line 4 "th" should read --the--.
Column 24, line 30 "htd" should read --had--.
Column 25, line 5 "18:14 Δ^{11} ," should read --8:1 Δ^{11} ,--.
Column 25, line 5 "18:2 $\Delta^{8,11}$," should read --8:2 $\Delta^{5,11}$,--.
Column 25, lines 19-20 "20:3 $\Delta^{11,14,17}$," should read --20:3 $\Delta^{11,14,17}$,--.
Column 25, lines 26-27 "20:3 $\Delta^{5,14,17}$," should read --20:3 $\Delta^{5,14,17}$,--.
Column 25, lines 30-31 "(20:4 $\Delta^{5,8,11,17}$)" should read --(20:4 $\Delta^{5,8,11,17}$)--.
Column 25, line 44 "18:4 $\Delta^{8,9,12,15}$," should read --18:4 $\Delta^{6,9,12,15}$,--.
Column 25, lines 44-45
"20:2 $\Delta^{11,14,20:3\Delta^{8,11,14}}$,"
should read
--20:2 $\Delta^{11,14},20:3\Delta^{8,11,14}$,--.
Column 26, line 62 " Δ^6 " should read -- Δ^5 --.
Column 27, line 17 "Kom," should read --Korn--.
Column 27, line 21 "388:113-125,1975" should read --388:113-125, 1975--
Column 27, line 30 "*Essent*" should read --*Essent*.--.

MAILING ADDRESS OF SENDER:
Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 6,825,017
No. of add'l copies _____
(@ .30 per page)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,825,017

DATED : November 30, 2004

INVENTOR(S) : Browse *et al.*

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 27, line 51 "absent" should read --absent.--.

Column 27, line 56 " Δ^8 " should read -- Δ^6 --.

Column 27, line 64 "C" should read --C.--.

Column 28, line 34 "diet" should read --diet.--.

Column 28, line 39 " $20:2^{1,14}$ " should read -- $20:2\Delta^{11,14}$ --.

Column 28, line 61 "this-animal" should read --this animal--.

Column 29, line 51 "agent" should read --agent.--.

Column 30, line 2 "development" should read --development.--.

Column 30, line 8 "T24A1B" should read --T24A18--.

Column 30, line 19 "JITi 19" should read --JIT119--.

Column 30, line 32 "*Genet*" should read --*Genet*--.

Column 30, line 49 "s lection" should read --selection--.

Column 30, lines 48-49 " $20:3\Delta_{8,11}^5$ " should read -- $20:3\Delta^{5,8,11}$ --.

In the Claims:

Column 50, claim 22

"claim 21, wherein" should read

--claim 19, wherein--.

Column 52, claim 26

"claim 21, wherein" should read

-- claim 24, wherein--

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 6,825,017

No. of add'l copies _____
(@ .30 per page)

DEC 14 2005